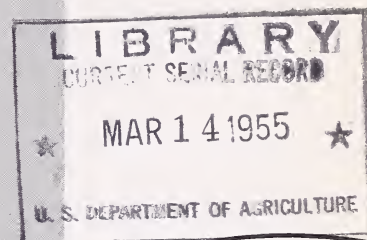


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of. 3

SPACE ALLOCATION FOR GROCERY ITEMS IN FOOD STORES



ELIMINATE DEAD STOCK

STOCK ITEMS WITH CUSTOMER APPEAL

LIMIT DISPLAY OF SLOW SELLERS

REVIEW ITEM MOVEMENT FREQUENTLY

AVOID OUT-OF-STOCK CONDITION

**Some
Keys
to
Faster
Turnover**

U. S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
WASHINGTON, D. C.

FEBRUARY 1955

PREFACE

This report is based on research undertaken to aid retailers in reducing the cost of food distribution by developing better utilization of selling space in retail food stores.

The plans and procedures of this study were approved in 1953 by the officers and directors of the National Association of Retail Grocers: V. L. Browner, president, Des Moines, Iowa; Alvin V. Hokanson (elected president at 1954 convention), Porter, Ind.; Ray Cowperthwaite, treasurer, Bushnell, Ill.; Gerard Klomp, past president, Ogden, Utah; W. H. Crawford, El Monte, Calif.; Scott Detrick, Louisville, Ky.; R. J. Frederick, Beaver Dam, Wis.; R. C. Houlihan, Fort Worth, Texas; and O. A. Swaringen, Concord, N. C.

The authors wish to express appreciation to Mrs. R. M. Kiefer, secretary-manager of the National Association of Retail Grocers, for assistance in summarizing the statistical data; Don Fisher, secretary of Iowa Retail Food Dealers Association; and Harold P. Echternach, secretary of the Illinois Retail Grocers Association, for assistance in obtaining wholesaler participation; Roger J. Kasper, general manager, and F. W. Saville, and E. C. Johnston, supervisors, of the Grocers Wholesale Co-op Co., Des Moines, Iowa; Russell W. Byerly, general manager, and Lowell Janke and Victor Schmidt, supervisors, of the Winston-Newell Co., Des Moines, Iowa; and Herbert R. Rheinhardt, sales manager, and Wayne L. Johnson and Russell Wheeler, supervisors, of the Bunn-Capitol Wholesale Grocery Co., Bloomington, Ill., for assistance in selecting participating stores and taking inventories.

R. W. Hoecker, head, Wholesaling and Retailing Section, Transportation and Facilities Branch, Agricultural Marketing Service, U. S. Department of Agriculture, directed the preparation of this report.

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The study on which this report is based was conducted under authority of the Agricultural Marketing Act of 1946 (PMA, Title II).

SUMMARY AND CONCLUSIONS

A study of the sales and inventories of 11 retail food stores, on which this report is based, revealed that approximately 30 percent of the grocery items studied had average sales of one unit per week or less.

Retail food sales in 9 of the stores, in which 15 or more categories of groceries were surveyed, showed that at least 29 percent of the 700 to 1,000 items studied in each store had sales of 10 units or less during a 4-week period. Four of the stores sold 10 units or less of more than half the items displayed. The averages for the 9 stores showed the following: 6.5 percent of all items studied with no sales during the 4-week period; 23.4 percent of all items with 1 through 5 unit sales; 13.8 percent with 6 through 10 units; 18.3 percent with 11 through 20 units; 10.8 percent with 21 through 30 units; and 27.2 percent of all items observed with sales over 30 units in 4 weeks.

The main factors accounting for items that either moved slowly or did not sell at all were: (1) Failure to eliminate nonselling stock; (2) brand duplication of slow-selling items; and (3) duplication of unit sizes in the same price range.

This report indicates the need for a periodic and systematic examination of the movement of most items stocked in retail food stores. The practices surveyed indicated that many slow-moving and nonselling items were being stocked which could be advantageously discontinued and replaced by items that would be in more demand. Thus by increasing sales and turnover and reducing *outs* (out-of-stock situations), the operation would become more profitable and would serve customers better.

To obtain the greatest advantage of stocking in relation to turnover, the sales for each item should be analyzed separately. After the sales record for each item has been obtained, retailers could follow the same procedure in making adjustments in their displays as was followed in the retail stores surveyed in this study.

The check on sales should be made periodically and the necessary adjustments in stocking repeated. Items that sell well today may have a considerably different sales performance 6 months or a year from now.

This study raises a number of questions:

- (1) Should cases of slow-moving items be broken at the warehouse?
- (2) Should some merchandise be packed in smaller cases? Would this result in wider distribution and more sales? How much would this add to the cost of packaging and handling?
- (3) Should display shelves be made more shallow and with additional shelves to allow for more display space?
- (4) How can slow-moving and nonselling items be detected?
- (5) How many brands, items, and unit sizes should be stocked?

SPACE ALLOCATION FOR GROCERY ITEMS IN FOOD STORES

By V. I. Browner, president, 1/
National Association of Retail Grocers,
and Hans Pauli, marketing specialist,
Transportation and Facilities Branch,
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INTRODUCTION

As supermarkets have expanded toward one-stop shopping centers, the competition for space within the stores has become acute. There are increased space requirements for new departments, new merchandise, more categories, additional items for existing categories, preparation areas and temporary storage in back rooms, wider aisles, check stands, and shopping carts. The need for and high cost of display space has emphasized the importance of securing a relatively high rate of turnover for all items. Previous research has indicated that the income of retail stores probably can be increased by increasing stock turnover.

Food retailers, faced with higher rentals, building, labor, and other costs, realize that margins are meaningless unless related to turnover. Thus, turnover consistent with sound merchandising and stocking practices has become one of the major factors in lowering the cost of food distribution.

OBJECTIVES AND PROCEDURE

The object of this study was to help reduce costs of retailing foods by improving the allocation of selling space. This was undertaken by: (1) Examining the stocking procedures of 11 retail food stores with different management, sizes, and locations; (2) examining the effectiveness of their present shelf space allocations; (3) developing a stocking plan for allocation of selling space in relation to item sales performance; (4) attempting to increase turnover in existing items; and (5) making it possible for stores to carry a bigger selection of merchandise without appreciably increasing investment in floor space.

Nine successfully operated retail food stores in the Midwest and 2 located on the Atlantic seaboard were chosen as case studies. Total annual sales for the stores ranged from \$150,000 to \$2,500,000. The stores were located in cities ranging in population from about 2,000 to 1,000,000. Nineteen grocery categories with low seasonal variations were selected. Records were obtained for a 4-week period.

During the 4-week period no changes were made in the display of the items studied. The existing numbers of rows, units, and shelf positions were maintained. Out-of-stock conditions were guarded against and other influences that might affect normal sales were eliminated insofar as possible. The following categories were studied:

1/ President from July 1952 to July 1954.

1. Pickles, olives and relish
2. Baking supplies
3. Canned juices
4. Oils and salad dressing
5. Cereals
6. Beverages (soft drinks not included)
7. Baby foods
8. Spreads
9. Soups
10. Condiments
11. Canned vegetables
12. Canned fruits
13. Canned meat and chicken
14. Canned fish
15. Canned milk
16. Sugar
17. Pet foods
18. Soaps
19. Dietetic foods

For each of the 9 midwestern stores at least 15 of the above categories were studied. For each of the 2 stores on the Atlantic seaboard only the canned fruit and vegetable categories were considered.

Sales for each store were determined in physical units by: (1) Obtaining at the beginning of the 4-week period an opening inventory (shelf and back room) of the items in each category studied; (2) recording all deliveries of these items to the store during the period and adding them to the opening inventory; and (3) taking an inventory at the end of the period and subtracting the closing inventory of each item. A sample of the form on which records were kept is shown in figure 1. 2/

Sample of record form used to obtain detailed data on item sales for individual stores.

Opening inventory date: _____

Closing inventory date: _____

| Name of category: | | | | | | | | | | | | | | | |
|----------------------|-------|--------------|-------------------|------------------------|-------------------------|-----------------------------|-----------------|-----------------|-----------------|-----------------|-------------------------|-----------------------------|-------------------|---------------------------|--------------------------------------|
| Spreads | | | | | | | | | | | | | | | |
| Name of item | Brand | Size of wgt. | No. of shelf rows | No. of units when full | Opening inventory shelf | Opening inventory back-room | Stock additions | Stock additions | Stock additions | Stock additions | Closing inventory shelf | Closing inventory back-room | No. of units sold | Your turn-over suggestion | Proposed no. of units for adjustment |
| Column numbers | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| Rasp. jelly | C. | 6 oz. | 3 | 42 | 17 | - | 24 | - | - | - | 36 | - | 5 | - | - |
| Crunch peanut butter | E. | 12 oz. | 6 | 30 | 24 | - | 24 | - | - | 24 | 37 | - | 35 | - | - |
| Crunch peanut butter | F. | 13 oz. | 2 | 36 | 29 | - | - | 24 | - | 96 | 42 | 2 | 105 | - | - |
| Cream peanut butter | F. | 13 oz. | 3 | 54 | 51 | - | - | 24 | - | - | 51 | - | 24 | - | - |

Figure 1.

Description of Participating Stores

Store A had an approximate total annual sales volume of \$150,000; Store C, \$400,000; and Store E, \$500,000. These three stores are in small cities with no industry, and depend principally on farm trade.

2/ More detailed examples of the data obtained from the use of this form are being prepared at NARGUS headquarters, 360 North Michigan Avenue, Chicago, Ill.

Store B, with an approximate total annual sales volume of \$300,000, is in a suburban area and receives its patronage from customers in the medium- and high-income groups. Store D, with a sales volume of \$450,000, also is in a suburban area but draws its trade from the middle- and low-income groups.

Store G, with an approximate total annual sales volume of \$800,000, obtains its patronage mainly from colleges, State institutions, industrial workers, and farmers. Store H, with a sales volume of \$900,000, and Store I, with a sales volume of \$1,500,000, are in industrial centers and obtain most of their business from industrial workers. Store F, with a sales volume of \$650,000, is located in a small city within 10 miles of an industrial center and depends upon farmers and industrial workers for patronage. Store J, with a sales volume of \$1,500,000, has a suburban location close to a city of about a million population. Its business is obtained from people in the middle-income group. Store K, with a sales volume of \$2,500,000, is in a city of approximately a million population and is patronized largely by customers with below average incomes.

Definition of Terms

Terms used in this report are defined as follows: (1) *Unit*--a single can or package of merchandise--that is, 1 can of soup or 1 package of cereal; (2) *item*--units of identical merchandise--for example, 1 brand, size, and kind of cereal; (3) *brand*--company name or trade name identifying the product; (4) *category*--items of similar merchandise usually grouped together--for example, all brands, kinds, and sizes of soup, or of cereals; and (5) *turnover*--number of times per year that the quantity displayed on the shelf is sold. Turnover is computed by dividing the average weekly units sold during a 4-week period by the number of units in full display and multiplying by 52.

Variation Among Stores

The display, sales, and turnover data varied considerably among the 11 stores studied presumably because of differences in trade areas, competition, management, and size of stores. Therefore, the data from each store are presented separately in tables 1-11, pp. 8-17 by categories. These data are presented in the order of the total volume of store sales.

There was a relationship between the volume of the store sales and the number of items stocked, but this relationship was not as close as might be expected. For example, store B (table 1), with average weekly sales of 3,403 units for 16 categories, carried 884 items. On the other hand, store H (table 8), with average weekly sales of 9,284 units, or nearly 3 times that of store B, carried only 802 items in 16 comparable categories. Stores with the larger sales volume and store area tended to carry the same number of categories as the smaller stores but more items per category.

In 7 of the 11 stores, annual turnover of the categories studied averaged between 11 and 15; the 2 stores with the smallest sales volume averaged less than 10 annual turnovers. Stores J and K obtained a turnover of 14 and 18, respectively, in their canned fruit and vegetable categories.

There were considerable differences among the stores in the number of items stocked for which no sales were made during the 4 weeks of the study. All of the 9 stores in the Midwest had some items stocked in which no sales were made. The stores with the smaller

sales volume tended to have the greatest proportion of *dead* items in stock. The smallest-volume store had 115 items for which no sales were made (15 percent of the items stocked in 18 categories). On the other hand, store H, with an annual volume of about \$900,000, had only 14 items, or 1.5 percent of the items in the 18 comparable categories, which did not sell.

The percentage of items with different numbers of units sold per item, in each of the 9 stores in which 15 or more categories were studied, are shown in figure 2. As can be noted from the figure, at least 29 percent of the items in all of the stores had sales of 10 units or less during the 4-week period. In 4 of the stores over half of the items carried had sales of 10 units or less during the same period. Although the stores with the smaller sales volume tended to carry the largest proportion of *dead* and slow-moving items, store D, with an annual volume of about \$450,000, had the smallest proportion of slow-moving items. The percentage of items with over 30 units sold per item during the 4-week period varied from 13 percent for store B to 40.1 percent for store H.

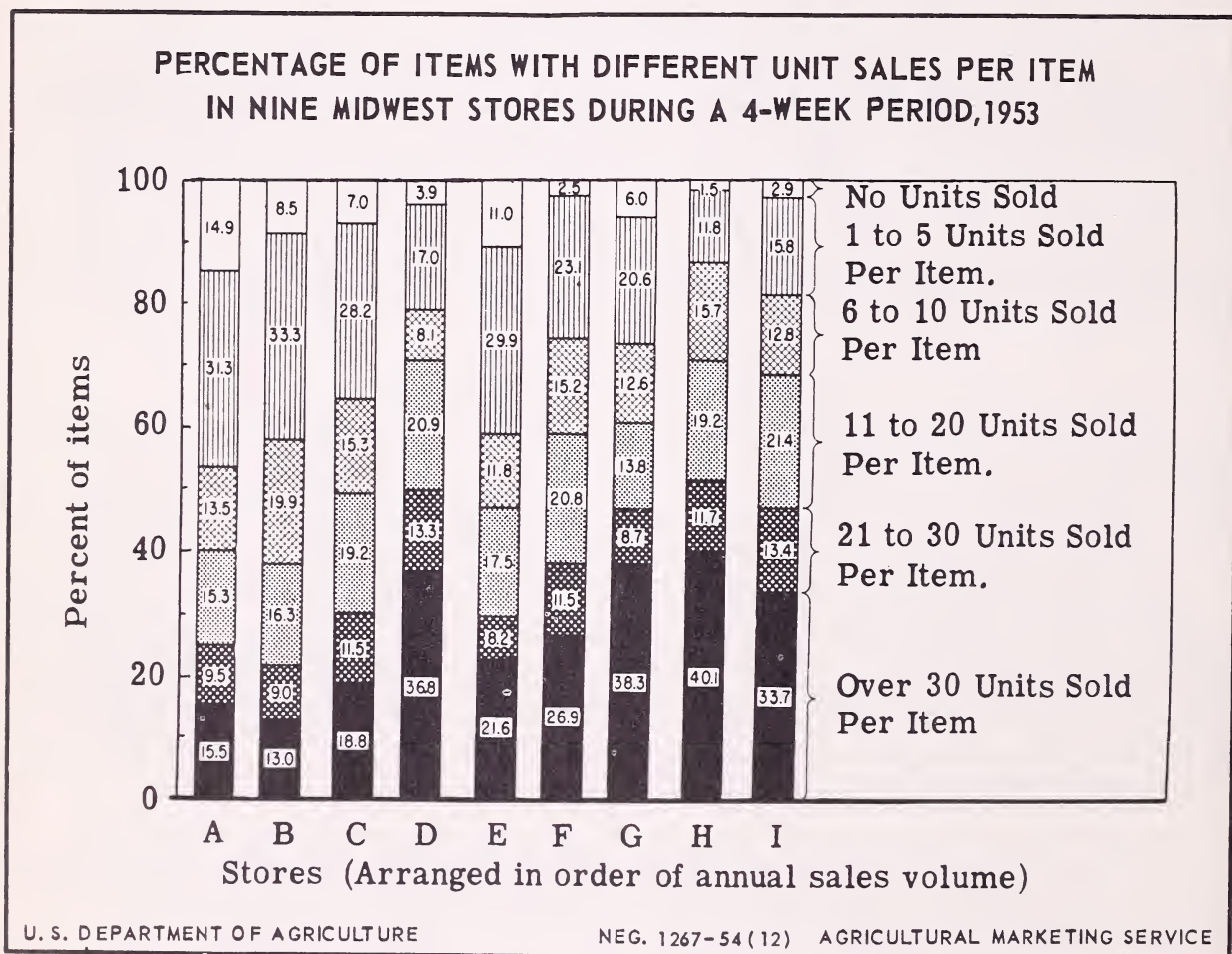


Figure 2.

Variation Among Categories

The experience of the stores studied was fairly consistent for some of the categories while it varied widely for others (table 12, p. 18). The turnover rate on the sugar and canned milk categories was relatively high for all stores except for canned milk in one store. Turnover rates for the pickle, olive, and relish category, and the canned meat and chicken category, were 10 or less for all stores except one for each of these categories.

Differences among stores in the turnover rate were small for the spread category, varying only from 8 to 11; however, for the condiment category the turnover rate varied from 6 to 40.

All of the individual stores had wide variations in the turnover rates for the categories studied and even wider variations among items. Among categories, the individual store with the greatest difference had a turnover of 4 for one category and of 120 for another; the corresponding figures for the store with the smallest difference were 4 and 34.

The problem of getting consistently high turnover appears universal for the 11 stores studied. Even store E, which had the highest average annual turnover rate of 20, had considerably lower turnover rates than the other stores for the canned meat and chicken category and the pet food category.

Also shown in table 12 are the number of brands carried in each category for each store. As was noted for items, the relationship between sales volume and number of brands stocked was not as close as was expected. In most cases the smaller volume stores carried practically as many brands and, in some instances, more brands than the larger stores. For example, store I carried 293 brands in 16 categories with weekly sales of 8,998 units while store B carried 314 brands in the same 16 categories with weekly sales of only 3,403 units.

Inspection of the individual store data indicates that slow item turnover is primarily the result of (1) too much space allocated to slow-selling or nonselling items; or (2) displaying several brands of the slow-selling items. However, data in table 12 do not consistently show that the stores with a relatively small number of brands have a higher rate of turnover than those stores with a relatively large number of brands.

For 15 comparable categories the relationship between the number of units sold and the number of items and brands stocked, the turnover, and the units sold per brand are summarized in table 13, p. 19. Although the 3 largest stores of the group of 9 sold 228 percent more units than the 3 smallest stores, these 3 largest stores stocked only 19 percent more items and 10 percent more brands. Hence, units sold per brand were considerably higher in the group of largest stores. Annual turnover was essentially the same for the medium-sized and large stores.

Display Adjustments Made in Stores

None of the 11 operators included in this study had followed a systematic stocking plan. They applied the findings made on their stores by the following procedures:

1. They discontinued handling nonselling items and many of the slow-moving items for which comparable items of other brands or other sizes of the same brand were stocked.

2. On the basis of the sales performance of each item during the test period, and consistent with what the operator, wholesaler supervisor, and researcher believed to be good merchandising and stocking practices, they stocked most shelf displays in the following manner:

- a. Very fast moving items--less than one week's supply was stocked to obtain more than 52 turnovers per year.
- b. Fast moving items--between 1 and 2 week's supply was stocked to obtain more than 26 turnovers per year.
- c. Medium moving items--about a 2 weeks' supply was stocked to obtain about 26 turnovers per year.
- d. Slow-moving items--a minimum display was stocked.

Some modification in applying the plan described was necessitated by such considerations as (1) store size in relation to total sales and number of items carried, (2) stocking full rows, (3) margin differentials, (4) shelf positions, and (5) number of units packed in a case.

3. Stocked new items which the operators thought would sell well in their stores, in the space made available through the discontinuance of nonselling items and smaller shelf displays for slow-moving ones.

Smaller cases of slow-moving items would aid retailers in more closely adjusting the size of displays to the sales of these items and would help to obtain a higher turnover rate for them. For example, an item packed in a case containing 48 units and with sales potential of 1 to 5 units per week makes it impossible to obtain a satisfactory turnover in relation to stocks on hand.

Tables, 14, 15, and 16, pp. 20-22, show the adjustments made in the 3 stores for which complete data were available. A comparison of the numbers of items, rows, and units remaining on display after the adjustments with those for displays during the survey in stores B, C, and H is shown graphically in figure 3. New adjustments in the allocation of shelf space should be made in these stores as additional information is obtained on the turnover of the items displayed.

Among the 16 or more categories reported in these 3 stores, the operators discontinued handling an average of 10 percent of the items formerly stocked and reduced the number of units displayed by about 30 percent. Considerable space was thus made available for new items which, if selected wisely, could add considerably to store sales. Store B made the largest proportionate overall reduction of items and units displayed, while store C made the smallest. Store H made a relatively small reduction in number of items carried but a large reduction in the display of the items carried.

PROPORTION OF THE GROCERY ITEMS, ROWS AND UNITS REMAINING ON
DISPLAY AFTER ADJUSTMENT OF THOSE THAT WERE DISPLAYED
DURING THE SURVEY IN THREE MIDWEST STORES

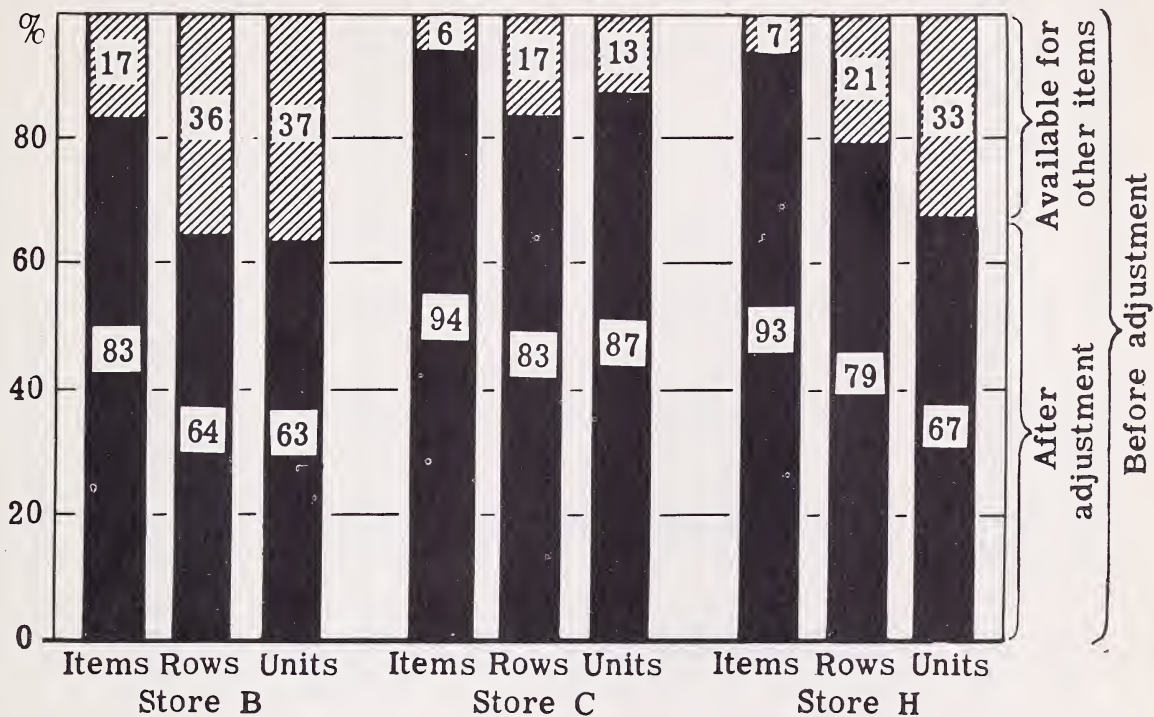


Figure 3.

Table 1.--Display, sales, and turnover of selected grocery items of store A, located in a small city, with annual sales of approximately \$150,000 for 4-week period, July 20-August 17, 1953 1/

| Category | Items :displayed: | Pows :displayed: | Units :in :full :display: | Average: :weekly: :units: :sold: | Annual :rate of :turn- :over: | Items for which unit sales were: | | | | | | | | | | | |
|-------------------------|----------------------|---------------------|------------------------------------|---|--|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| | | | | | | : 1 : 6 : 11 : 21 : 31 | | | | | | | | | | | |
| | | | | | | : None : to : to : to : to : to : to : to : to : to : to : to : | | | | | | | | | | | |
| | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | | |
| Pickles, olives, relish | 65 | 103 | 722 | 318 | 80 | 6 | 22 | 22 | 11 | 8 | 1 | 1 | 1 | 1 | 1 | | |
| Baking supplies | 68 | 115 | 1,465 | 617 | 154 | 5 | 10 | 22 | 17 | 10 | 6 | 3 | 3 | 3 | 3 | | |
| Oils and salad dressing | 29 | 58 | 403 | 285 | 71 | 9 | 1 | 12 | 5 | 7 | 3 | 1 | 1 | 1 | 1 | | |
| Beverages | 36 | 118 | 1,741 | 619 | 155 | 5 | 8 | 8 | 6 | 4 | 3 | 7 | 7 | 7 | 7 | | |
| Cereals | 49 | 90 | 1,726 | 392 | 98 | 3 | 4 | 19 | 9 | 15 | 2 | 0 | 0 | 0 | 0 | | |
| Baby foods. | 62 | 105 | 1,901 | 928 | 232 | 6 | 8 | 19 | 7 | 10 | 4 | 14 | 14 | 14 | 14 | | |
| Soups | 21 | 56 | 716 | 290 | 73 | 5 | 5 | 9 | 1 | 0 | 2 | 4 | 4 | 4 | 4 | | |
| Condiments. | 38 | 61 | 614 | 278 | 70 | 6 | 10 | 13 | 5 | 6 | 2 | 2 | 2 | 2 | 2 | | |
| Canned juices | 43 | 76 | 868 | 1,060 | 265 | 16 | 1 | 7 | 3 | 9 | 12 | 11 | 11 | 11 | 11 | | |
| Canned vegetables . . | 124 | 243 | 3,815 | 2,021 | 505 | 7 | 21 | 39 | 12 | 11 | 21 | 20 | 20 | 20 | 20 | | |
| Canned fruits | 78 | 169 | 2,552 | 1,663 | 416 | 8 | 11 | 25 | 9 | 9 | 8 | 16 | 16 | 16 | 16 | | |
| Canned meat and chicken | 36 | 68 | 810 | 233 | 58 | 4 | 7 | 18 | 6 | 1 | 1 | 3 | 3 | 3 | 3 | | |
| Canned fish | 19 | 40 | 652 | 266 | 67 | 5 | 1 | 9 | 3 | 3 | 1 | 2 | 2 | 2 | 2 | | |
| Canned milk | 10 | 28 | 866 | 330 | 83 | 5 | 2 | 0 | 1 | 2 | 0 | 5 | 5 | 5 | 5 | | |
| Sugar | 8 | 16 | 227 | 683 | 171 | 39 | 0 | 2 | 0 | 1 | 0 | 5 | 5 | 5 | 5 | | |
| Pet foods | 16 | 26 | 435 | 686 | 172 | 21 | 1 | 2 | 2 | 4 | 0 | 7 | 7 | 7 | 7 | | |
| Soaps | 47 | 81 | 2,483 | 1,334 | 334 | 7 | 0 | 7 | 5 | 16 | 4 | 15 | 15 | 15 | 15 | | |
| Spreads | 23 | 51 | 468 | 311 | 78 | 9 | 3 | 9 | 2 | 2 | 3 | 4 | 4 | 4 | 4 | | |
| Total or average . . | 772 | 1,504 | 22,464 | 12,314 | 3,079 | 7 | 115 | 242 | 104 | 118 | 73 | 120 | 120 | 120 | 120 | | |

1/ For definition of terms see text.

Note: Of the 772 items studied, 461 items or 60 percent had sales of 10 units or less per item; 115 items or 15 percent produced no unit sales during the 4 weeks studied.

Table 2.--Display, sales, and turnover of selected grocery items of store B, located in a suburban area, with annual sales of approximately \$300,000 for 4-week period, July 20-August 17, 1953 1/

| Category | Items : displayed | Rows : displayed | Units : in full display | Units : sold | Average: | | Items for which unit sales were: | | | | | | | | | | | |
|-------------------------|----------------------|---------------------|----------------------------|-----------------|-----------------------------|---------------------------|----------------------------------|-----|-----|-----|-----|-----|----------------------------|-----|-----|-----|-----|-----|
| | | | | | weekly : units : sold | Annual : turn- over | rate of : | | | | | | None : to : to : to : to : | | | | | |
| | | | | | | | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. |
| Pickles, olives, relish | 82 | 155 | 1,997 | 559 | 140 | 4 | | | | 18 | 35 | 13 | 9 | 3 | 4 | | | |
| Baking supplies | 93 | 127 | 1,760 | 1,101 | 275 | 8 | | | | 6 | 35 | 19 | 17 | 9 | 7 | | | |
| Oils and salad dressing | 49 | 81 | 618 | 486 | 122 | 10 | | | | 1 | 22 | 9 | 9 | 5 | 3 | | | |
| Beverages | 82 | 117 | 1,469 | 1,492 | 373 | 13 | | | | 13 | 25 | 13 | 6 | 9 | 16 | | | |
| Cereals | 63 | 117 | 922 | 809 | 202 | 11 | | | | 5 | 19 | 9 | 15 | 8 | 7 | | | |
| Soups | 28 | 64 | 1,125 | 947 | 237 | 11 | | | | 1 | 5 | 6 | 2 | 1 | 13 | | | |
| Condiments | 41 | 75 | 617 | 528 | 132 | 11 | | | | 3 | 12 | 5 | 13 | 4 | 4 | | | |
| Canned juices | 41 | 67 | 828 | 750 | 188 | 12 | | | | 2 | 10 | 6 | 8 | 6 | 9 | | | |
| Canned vegetables | 117 | 229 | 3,696 | 1,789 | 447 | 6 | | | | 6 | 33 | 29 | 24 | 12 | 13 | | | |
| Canned fruits | 77 | 163 | 2,160 | 1,013 | 253 | 6 | | | | 5 | 24 | 12 | 18 | 11 | 7 | | | |
| Canned meat and chicken | 57 | 84 | 1,347 | 543 | 136 | 5 | | | | 9 | 21 | 9 | 7 | 7 | 4 | | | |
| Canned fish | 38 | 54 | 1,429 | 574 | 144 | 5 | | | | 5 | 11 | 8 | 8 | 1 | 5 | | | |
| Canned milk | 8 | 17 | 356 | 475 | 119 | 17 | | | | 0 | 2 | 1 | 1 | 2 | 2 | | | |
| Sugar | 10 | 15 | 201 | 522 | 131 | 34 | | | | 0 | 2 | 2 | 0 | 1 | 5 | | | |
| Pet foods | 37 | 74 | 816 | 1,256 | 314 | 20 | | | | 0 | 14 | 7 | 4 | 0 | 12 | | | |
| Spreads | 61 | 90 | 1,024 | 767 | 192 | 10 | | | | 1 | 24 | 28 | 3 | 1 | 4 | | | |
| Total or average | 884 | 1,529 | 20,365 | 13,611 | 3,403 | 9 | | | | 75 | 294 | 176 | 144 | 80 | 115 | | | |

1/ For definition of terms see text.

Note: Of the 884 items studied, 545 items or 62 percent had sales of 10 units or less per item; 75 items or 8 percent produced no unit sales during the 4 weeks studied.

Table 3.--Display, sales, and turnover of selected grocery items of store C, located in a small city, with annual sales of approximately \$400,000 for 4-week period, July 8-August 5, 1953 1/

| Category | Items displayed: | Rows | Units in full display: | Units sold | Average: Annual : Items for which unit sales were: | | | | | | | | | |
|---------------------------|---------------------|-------|------------------------------|---------------|--|--------------|--------|------|------|------|------|------|------|------|
| | | | | | weekly: rate of: | units: turn- | None : | to : | to : | to : | to : | to : | to : | to : |
| | No. | No. | No. | No. | No. | over : | No. | No. | No. | No. | No. | No. | No. | No. |
| Pickles, olives, relish | 38 | 86 | 587 | 383 | 96 | 8 | 5 | 13 | 6 | 6 | 7 | 1 | | |
| Baking supplies | 76 | 99 | 902 | 1,647 | 412 | 24 | 5 | 16 | 11 | 20 | 8 | 16 | | |
| Oils and salad dressing | 32 | 68 | 480 | 454 | 114 | 12 | 1 | 12 | 4 | 10 | 1 | 4 | | |
| Beverages | 48 | 64 | 574 | 1,325 | 331 | 30 | 4 | 15 | 7 | 9 | 3 | 10 | | |
| Cereals | 49 | 50 | 722 | 1,576 | 394 | 28 | 1 | 7 | 1 | 8 | 12 | 20 | | |
| Baby foods. | 77 | 79 | 1,404 | 1,023 | 256 | 9 | 4 | 28 | 11 | 13 | 13 | 8 | | |
| Soups | 36 | 68 | 1,082 | 865 | 216 | 10 | 4 | 8 | 4 | 9 | 1 | 10 | | |
| Condiments. | 29 | 65 | 457 | 528 | 132 | 15 | 5 | 10 | 2 | 5 | 4 | 3 | | |
| Canned juices | 32 | 44 | 404 | 666 | 167 | 21 | 1 | 11 | 5 | 5 | 3 | 7 | | |
| Canned vegetables | 85 | 170 | 1,917 | 1,672 | 418 | 11 | 6 | 27 | 9 | 17 | 10 | 16 | | |
| Canned fruits | 71 | 146 | 1,401 | 1,053 | 263 | 10 | 3 | 19 | 16 | 16 | 6 | 11 | | |
| Canned meat and chicken | 37 | 62 | 768 | 453 | 113 | 8 | 4 | 14 | 7 | 4 | 4 | 4 | | |
| Canned fish | 19 | 34 | 596 | 429 | 107 | 9 | 1 | 4 | 3 | 1 | 3 | 7 | | |
| Canned milk | 6 | 15 | 414 | 738 | 185 | 23 | 0 | 0 | 1 | 0 | 0 | 5 | | |
| Sugar | 7 | 16 | 125 | 915 | 229 | 94 | 0 | 0 | 1 | 0 | 0 | 6 | | |
| Pet foods | 20 | 30 | 267 | 261 | 65 | 13 | 1 | 4 | 6 | 4 | 4 | 1 | | |
| Spreads | 50 | 100 | 767 | 572 | 143 | 10 | 4 | 13 | 15 | 10 | 3 | 5 | | |
| Total or average | 712 | 1,196 | 12,867 | 14,560 | 3,640 | 15 | 49 | 201 | 109 | 137 | 82 | 134 | | |

1/ For definition of terms see text.

Note: Of the 712 items studied, 359 items or 50 percent had sales of 10 units or less per item; 49 items or 7 percent produced no unit sales during the 4 weeks studied.

Table 4.--Display, sales, and turnover of selected grocery items of store D, located in a suburban area, with annual sales of approximately \$450,000 for 4-week period, July 14-August 11, 1953 1/

| Category | Items :displayed: | Rows :displayed: | Units :in :full :display: | Units :sold | Average: Annual : Items for which unit sales were: | | | | | | | | | |
|-------------------------|----------------------|---------------------|------------------------------------|----------------|--|-----|------------------|-----|-------------|-----|------------|-----|-------------|-----|
| | | | | | : weekly : rate of : | | : turn- : None : | | : to : to : | | : 5 : 10 : | | : 20 : 30 : | |
| | | | | | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. |
| Pickles, olives, relish | 46 | 115 | 1,212 | 640 | 160 | 7 | 2 | 9 | 6 | 20 | 7 | 2 | | |
| Baking supplies | 85 | 154 | 2,214 | 2,361 | 590 | 14 | 3 | 17 | 14 | 22 | 9 | 20 | | |
| Oils and salad dressing | 31 | 71 | 768 | 1,091 | 273 | 18 | 4 | 2 | 1 | 10 | 5 | 9 | | |
| Beverages | 58 | 102 | 1,640 | 1,880 | 470 | 15 | 1 | 12 | 5 | 13 | 6 | 21 | | |
| Cereals | 57 | 95 | 1,426 | 1,736 | 434 | 16 | 1 | 12 | 3 | 9 | 9 | 23 | | |
| Baby foods | 48 | 148 | 2,770 | 2,783 | 696 | 13 | 0 | 1 | 1 | 4 | 6 | 36 | | |
| Soups | 27 | 132 | 2,571 | 1,729 | 432 | 9 | 2 | 4 | 1 | 5 | 2 | 13 | | |
| Condiments | 42 | 108 | 948 | 822 | 206 | 11 | 4 | 12 | 5 | 8 | 4 | 9 | | |
| Canned juices | 28 | 62 | 565 | 781 | 195 | 18 | 2 | 7 | 1 | 3 | 3 | 12 | | |
| Canned vegetables | 90 | 242 | 3,621 | 4,032 | 1,008 | 14 | 3 | 5 | 3 | 22 | 16 | 41 | | |
| Canned fruits | 57 | 133 | 1,922 | 1,565 | 391 | 11 | 3 | 9 | 6 | 7 | 10 | 22 | | |
| Canned meat and chicken | 51 | 99 | 1,736 | 851 | 213 | 6 | 2 | 17 | 5 | 13 | 7 | 7 | | |
| Canned fish | 20 | 40 | 1,040 | 817 | 204 | 10 | 0 | 7 | 1 | 3 | 1 | 8 | | |
| Canned milk | 7 | 30 | 522 | 901 | 225 | 22 | 0 | 0 | 0 | 0 | 2 | 5 | | |
| Sugar | 11 | 47 | 382 | 1,332 | 333 | 45 | 1 | 1 | 1 | 1 | 1 | 6 | | |
| Pet foods | 26 | 73 | 821 | 1,886 | 472 | 30 | 1 | 1 | 3 | 7 | 2 | 12 | | |
| Soaps | 51 | 88 | 3,157 | 3,384 | 846 | 14 | 0 | 2 | 1 | 7 | 6 | 35 | | |
| Spreads | 56 | 136 | 1,809 | 1,362 | 341 | 10 | 2 | 16 | 7 | 12 | 9 | 10 | | |
| Total or average | 791 | 1,875 | 29,124 | 29,953 | 7,488 | 13 | 31 | 134 | 64 | 166 | 105 | 291 | | |

1/ For definition of terms see text.

Note: Of the 791 items studied, 229 items or 29 percent had sales of 10 units or less per item; 31 items or 4 percent produced no unit sales during the 4 weeks studied.

Table 6.--Display, sales, and turnover of selected grocery items in store F, located in a small city, with annual sales of approximately \$650,000 for 4-week period, July 15-August 12, 1953 1/

| Category | Items : | | Rows : | | Units : | | Average: Annual : | | Items for which unit sales were: | | | | | | | | | | | |
|-------------------------|------------|-------|------------|--------|-----------|-----|-------------------|-----|----------------------------------|-----|---------|-----|--------|-----|------|-----|------|-----|------|-----|
| | displayed: | | displayed: | | in full : | | weekly:rate of : | | Units : | | turn- : | | None : | | to : | | to : | | to : | |
| | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. |
| Pickles, olives, relish | 53 | 154 | 1,311 | 589 | 147 | 6 | 2 | 21 | 10 | 14 | 1 | 5 | | | | | | | | |
| Baking supplies | 103 | 172 | 2,111 | 2,682 | 671 | 17 | 3 | 17 | 15 | 23 | 19 | 26 | | | | | | | | |
| Oils and salad dressing | 39 | 94 | 643 | 723 | 181 | 15 | 1 | 13 | 5 | 14 | 1 | 5 | | | | | | | | |
| Beverages | 61 | 141 | 2,374 | 2,245 | 561 | 12 | 2 | 17 | 10 | 8 | 7 | 17 | | | | | | | | |
| Cereals | 69 | 130 | 1,920 | 2,406 | 602 | 16 | 1 | 12 | 7 | 8 | 9 | 32 | | | | | | | | |
| Baby foods. | 97 | 199 | 3,867 | 2,580 | 645 | 9 | 1 | 13 | 8 | 26 | 21 | 28 | | | | | | | | |
| Soups | 34 | 93 | 2,037 | 1,305 | 326 | 8 | 1 | 9 | 4 | 7 | 2 | 11 | | | | | | | | |
| Condiments. | 49 | 145 | 1,066 | 1,424 | 356 | 17 | 1 | 18 | 6 | 6 | 7 | 11 | | | | | | | | |
| Canned juices | 56 | 152 | 1,221 | 1,798 | 450 | 19 | 3 | 9 | 7 | 16 | 6 | 15 | | | | | | | | |
| Canned vegetables | 145 | 436 | 5,631 | 3,185 | 796 | 7 | 3 | 36 | 30 | 26 | 17 | 33 | | | | | | | | |
| Canned fruits | 97 | 236 | 2,621 | 3,451 | 863 | 17 | 3 | 20 | 15 | 21 | 15 | 23 | | | | | | | | |
| Canned meat and chicken | 52 | 122 | 2,604 | 654 | 164 | 3 | 2 | 21 | 9 | 16 | 1 | 3 | | | | | | | | |
| Canned fish | 23 | 43 | 1,611 | 764 | 191 | 6 | 0 | 5 | 4 | 7 | 3 | 4 | | | | | | | | |
| Canned milk | 12 | 27 | 852 | 1,186 | 297 | 18 | 0 | 1 | 3 | 1 | 1 | 6 | | | | | | | | |
| Sugar | 8 | 22 | 437 | 2,577 | 644 | 77 | 0 | 1 | 0 | 1 | 0 | 6 | | | | | | | | |
| Pet foods | 37 | 73 | 1,438 | 1,075 | 269 | 10 | 2 | 14 | 7 | 1 | 1 | 12 | | | | | | | | |
| Soaps | 68 | 116 | 4,144 | 3,490 | 873 | 11 | 0 | 4 | 4 | 12 | 7 | 41 | | | | | | | | |
| Spreads | 58 | 131 | 1,443 | 1,095 | 274 | 10 | 2 | 14 | 17 | 14 | 4 | 7 | | | | | | | | |
| Total or average | 1,061 | 2,486 | 37,331 | 33,229 | 8,307 | 12 | 27 | 245 | 161 | 221 | 122 | 285 | | | | | | | | |

1/ For definition of terms see text.

Note: Of the 1,061 items studied, 433 items or 41 percent had sales of 10 units or less per item; 27 items or 3 percent produced no unit sales during the 4 weeks studied.

Table 7.--Display, sales, and turnover of selected grocery items in store G, located in a medium sized city, with annual sales of approximately \$800,000 for 4-week period, July 16-August 13, 1953 1/

| Category | Items | | Rows | | Units | | Average: | | Annual | | | | | | | | | | | Items for which unit sales were: | | | | | | | | | | |
|-------------------------|------------|-------|------------|--------|--------|-----|----------|-----|--------|-----|----------|-----|-------|-----|------|-----|------|-----|-----|----------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | displayed: | | displayed: | | in | | weekly: | | turn- | | rate of: | | turn- | | over | | None | | 5 | | 10 | | 20 | | 30 | | to | | 31 | |
| | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. |
| Pickles, olives, relish | 52 | 105 | 1,239 | 839 | 210 | 9 | 4 | 19 | 12 | 7 | 3 | 7 | | | | | | | | | | | | | | | | | | |
| Baking supplies | 141 | 229 | 5,509 | 3,490 | 873 | 8 | 10 | 37 | 27 | 17 | 21 | 29 | | | | | | | | | | | | | | | | | | |
| Oils and salad dressing | 44 | 83 | 1,264 | 2,051 | 513 | 21 | 0 | 5 | 2 | 7 | 7 | 23 | | | | | | | | | | | | | | | | | | |
| Beverages | 84 | 164 | 3,211 | 2,993 | 748 | 12 | 4 | 21 | 11 | 16 | 9 | 23 | | | | | | | | | | | | | | | | | | |
| Cereals | 76 | 122 | 3,133 | 1,120 | 280 | 5 | 7 | 18 | 15 | 21 | 5 | 10 | | | | | | | | | | | | | | | | | | |
| Baby foods | 65 | - | 3,858 | 5,598 | 1,400 | 19 | 1 | 2 | 1 | 2 | 7 | 52 | | | | | | | | | | | | | | | | | | |
| Soups | 32 | 81 | 2,028 | 2,076 | 519 | 13 | 0 | 12 | 2 | 2 | 1 | 15 | | | | | | | | | | | | | | | | | | |
| Condiments | 42 | 77 | 1,311 | 3,310 | 828 | 33 | 1 | 8 | 4 | 4 | 5 | 20 | | | | | | | | | | | | | | | | | | |
| Canned juices | 61 | 137 | 2,420 | 3,433 | 858 | 18 | 3 | 5 | 4 | 6 | 7 | 36 | | | | | | | | | | | | | | | | | | |
| Canned vegetables | 128 | 279 | 6,747 | 12,442 | 3,111 | 24 | 1 | 10 | 9 | 13 | 8 | 87 | | | | | | | | | | | | | | | | | | |
| Canned fruits | 80 | 158 | 3,490 | 1,813 | 453 | 7 | 8 | 15 | 21 | 12 | 3 | 21 | | | | | | | | | | | | | | | | | | |
| Canned meat and chicken | 62 | 107 | 2,242 | 534 | 134 | 3 | 10 | 29 | 7 | 10 | 1 | 5 | | | | | | | | | | | | | | | | | | |
| Canned fish | 37 | 62 | 2,131 | 757 | 189 | 5 | 7 | 11 | 4 | 4 | 3 | 8 | | | | | | | | | | | | | | | | | | |
| Canned milk | 15 | 42 | 1,715 | 2,729 | 682 | 21 | 0 | 0 | 1 | 3 | 1 | 10 | | | | | | | | | | | | | | | | | | |
| Sugar | 11 | 47 | 991 | 2,969 | 742 | 39 | 0 | 3 | 1 | 0 | 1 | 6 | | | | | | | | | | | | | | | | | | |
| Pet foods | 40 | 69 | 1,974 | 2,226 | 557 | 15 | 2 | 11 | 6 | 6 | 0 | 15 | | | | | | | | | | | | | | | | | | |
| Soaps | 71 | 101 | 6,459 | 7,353 | 1,838 | 15 | 2 | 6 | 4 | 9 | 4 | 46 | | | | | | | | | | | | | | | | | | |
| Spreads | 59 | 104 | 1,505 | 894 | 224 | 8 | 6 | 15 | 8 | 12 | 10 | 8 | | | | | | | | | | | | | | | | | | |
| Total or average | 1,100 | 1,967 | 51,227 | 56,627 | 14,157 | 14 | 66 | 227 | 139 | 151 | 96 | 421 | | | | | | | | | | | | | | | | | | |

1/ For definition of terms see text.

Note: Of the 1,100 items studied, 432 items or 39 percent had sales of 10 units or less per item; 66 items or 6 percent produced no unit sales during the 4 weeks studied.

Table 8.--Display, sales, and turnover of selected grocery items in store H, located in a medium sized city, with annual sales of approximately \$900,000 for 4-week period, July 7-August 4, 1953 1/

| Category | Items : : displayed : | Rows : : displayed : | Units : : in full : | Units : : sold : | Average : : weekly : | Annual : : rate of : | Items for which unit sales were: | | | | | | | | | |
|---------------------------|--------------------------|-------------------------|------------------------|---------------------|-------------------------|-------------------------|----------------------------------|------|-------|-------|-------|-------|-------|--------|-----|-----|
| | | | | | | | None : | 1 : | 6 : | 11 : | 21 : | 31 : | and : | over : | No. | No. |
| | No. | No. | No. | No. | No. | No. | turn- : | 5 : | 10 : | 20 : | 30 : | to : | to : | to : | No. | No. |
| Pickles, olives, relish : | 70 : | 200 : | 1,782 : | 1,177 : | 294 : | 9 : | over : | 2 : | 14 : | 15 : | 21 : | 7 : | 11 : | | | |
| Baking supplies . . . : | 78 : | 110 : | 3,016 : | 2,787 : | 697 : | 12 : | | 1 : | 9 : | 11 : | 19 : | 13 : | 25 : | | | |
| Oils and salad dressing : | 45 : | 122 : | 853 : | 1,022 : | 256 : | 16 : | | 2 : | 5 : | 14 : | 9 : | 5 : | 10 : | | | |
| Beverages : | 52 : | 91 : | 2,058 : | 1,646 : | 412 : | 10 : | | 0 : | 8 : | 11 : | 12 : | 6 : | 15 : | | | |
| Cereals : | 67 : | 82 : | 2,786 : | 3,583 : | 896 : | 17 : | | 0 : | 4 : | 7 : | 8 : | 13 : | 35 : | | | |
| Baby foods. : | 96 : | 216 : | 4,811 : | 4,702 : | 1,176 : | 13 : | | 1 : | 1 : | 7 : | 14 : | 10 : | 63 : | | | |
| Soups : | 26 : | 82 : | 2,982 : | 2,567 : | 642 : | 11 : | | 0 : | 3 : | 3 : | 3 : | 3 : | 14 : | | | |
| Condiments. : | 42 : | 114 : | 1,277 : | 1,466 : | 367 : | 15 : | | 1 : | 11 : | 7 : | 6 : | 2 : | 15 : | | | |
| Canned juices : | 35 : | 105 : | 1,633 : | 1,611 : | 403 : | 13 : | | 0 : | 1 : | 4 : | 9 : | 2 : | 19 : | | | |
| Canned vegetables . . : | 124 : | 362 : | 10,471 : | 6,190 : | 1,548 : | 8 : | | 3 : | 6 : | 16 : | 25 : | 15 : | 59 : | | | |
| Canned fruits : | 78 : | 231 : | 4,921 : | 2,849 : | 712 : | 8 : | | 1 : | 11 : | 9 : | 10 : | 14 : | 33 : | | | |
| Canned meat and chicken : | 53 : | 118 : | 2,087 : | 2,971 : | 743 : | 18 : | | 0 : | 8 : | 8 : | 14 : | 4 : | 19 : | | | |
| Canned fish : | 27 : | 62 : | 1,387 : | 972 : | 243 : | 9 : | | 2 : | 4 : | 8 : | 3 : | 0 : | 10 : | | | |
| Canned milk : | 5 : | 16 : | 956 : | 1,968 : | 492 : | 27 : | | 0 : | 0 : | 0 : | 1 : | 0 : | 4 : | | | |
| Sugar : | 6 : | 21 : | 586 : | 2,779 : | 695 : | 62 : | | 0 : | 0 : | 1 : | 2 : | 0 : | 3 : | | | |
| Pet foods : | 30 : | 101 : | 1,371 : | 2,032 : | 508 : | 19 : | | 0 : | 1 : | 5 : | 4 : | 3 : | 17 : | | | |
| Spreads : | 64 : | 138 : | 1,788 : | 1,515 : | 379 : | 11 : | | 1 : | 11 : | 12 : | 12 : | 11 : | 17 : | | | |
| Dietetics : | 23 : | 58 : | 633 : | 151 : | 38 : | 3 : | | 0 : | 12 : | 7 : | 4 : | 0 : | 0 : | | | |
| Total or average . . : | 921 : | 2,229 : | 45,398 : | 41,988 : | 10,497 : | 12 : | | 14 : | 109 : | 145 : | 176 : | 108 : | 369 : | | | |

1/ For definition of terms see text.

Note: Of the 921 items studied, 268 items or 29 percent had sales of 10 units or less per item; 14 items or 2 percent produced no unit sales during the 4 weeks studied.

Table 9.--Display, sales, and turnover of selected grocery items in store I, located in a medium-sized city, with annual sales of approximately \$1,500,000 for 4-week period July 22-August 19, 1953 1/

| Category | Items displayed | Rows displayed | Units in full display | Units sold | Average: weekly units sold | Annual turn- over | Items for which unit sales were: | | | | | | | | | | | |
|-------------------------|--------------------|-------------------|-----------------------------|---------------|----------------------------------|-------------------------|----------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | | | | | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. |
| Pickles, olives, relish | 54 | 105 | 1,660 | 1,214 | 304 | 10 | 4 | 9 | 9 | 13 | 8 | 11 | | | | | | |
| Baking supplies | 92 | 175 | 2,743 | 2,173 | 543 | 10 | 2 | 15 | 19 | 26 | 12 | 18 | | | | | | |
| Oils and salad dressing | 35 | 66 | 836 | 715 | 179 | 11 | 4 | 14 | 3 | 3 | 3 | 8 | | | | | | |
| Beverages | 74 | 231 | 3,038 | 1,308 | 327 | 6 | 1 | 24 | 12 | 18 | 11 | 8 | | | | | | |
| Cereals | 63 | 105 | 2,081 | 3,162 | 791 | 20 | 0 | 3 | 5 | 12 | 6 | 37 | | | | | | |
| Baby foods | 87 | - | 5,000 | 3,373 | 843 | 9 | 1 | 4 | 6 | 16 | 14 | 46 | | | | | | |
| Soups | 33 | 93 | 2,665 | 2,542 | 636 | 13 | 0 | 4 | 2 | 8 | 2 | 17 | | | | | | |
| Condiments | 38 | 60 | 1,362 | 1,753 | 438 | 17 | 0 | 4 | 7 | 11 | 5 | 11 | | | | | | |
| Canned juices | 39 | 71 | 1,193 | 1,500 | 375 | 16 | 0 | 4 | 6 | 7 | 6 | 16 | | | | | | |
| Canned vegetables | 123 | 227 | 6,759 | 6,064 | 1,516 | 12 | 3 | 12 | 7 | 22 | 25 | 54 | | | | | | |
| Canned fruits | 76 | 179 | 2,673 | 2,245 | 561 | 11 | 2 | 12 | 8 | 19 | 15 | 20 | | | | | | |
| Canned meat and chicken | 62 | 114 | 1,994 | 1,622 | 406 | 10 | 4 | 14 | 8 | 12 | 5 | 19 | | | | | | |
| Canned fish | 24 | 31 | 997 | 1,052 | 263 | 14 | 0 | 5 | 3 | 5 | 1 | 10 | | | | | | |
| Canned milk | 13 | 31 | 1,330 | 3,804 | 951 | 37 | 0 | 1 | 1 | 2 | 0 | 9 | | | | | | |
| Sugar | 13 | 37 | 938 | 2,769 | 692 | 38 | 0 | 0 | 0 | 3 | 1 | 9 | | | | | | |
| Pet foods | 44 | 79 | 1,960 | 3,216 | 804 | 21 | 2 | 10 | 9 | 10 | 1 | 12 | | | | | | |
| Spreads | 55 | 102 | 1,392 | 852 | 213 | 8 | 4 | 11 | 13 | 11 | 9 | 7 | | | | | | |
| Total or average | 925 | 1,706 | 38,621 | 39,364 | 9,841 | 13 | 27 | 146 | 118 | 198 | 124 | 312 | | | | | | |

1/ For definition of terms see text.

Note: Of the 925 items studied, 291 items or 31 percent had sales of 10 units or less per item; 27 items or 3 percent produced no unit sales during the 4 weeks studied.

Table 10.--Display, sales, and turnover of entire canned fruit and vegetable items in store J, located in a large suburban area with annual sales of approximately \$1,500,000 for 4-week period November 19-December 17, 1953 1/

| Category | Items for which unit sales were: | | | | | | | | | | | |
|---------------------------|----------------------------------|--------------------|-----------------------------|---------------|-----------------------------------|--------------------------|--------------------------|-----|-----|-----|-----|-----|
| | Items displayed: | Rows displayed: | Units in full display | Units sold | Average: weekly: units sold | Annual: turn- over | rate of turn- over | 1 | 6 | 11 | 21 | 31 |
| | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. |
| Canned vegetables | 154 | 422 | 9,751 | 12,491 | 3,123 | 17 | 1 | 1 | 6 | 11 | 18 | 117 |
| Canned fruits | 130 | 347 | 7,687 | 6,550 | 1,638 | 11 | 0 | 1 | 7 | 24 | 20 | 78 |
| Total or average . . | 284 | 769 | 17,438 | 19,041 | 4,760 | 14 | 1 | 2 | 13 | 35 | 38 | 195 |

1/ For definition of terms see text.

Note: Of the 284 items studied, 16 items or 5.6 percent had sales of 10 units or less per item.

Table 11.--Display, sales, and turnover of entire canned fruit and vegetable items in store K, located in a large city with annual sales of approximately \$2,500,000 for 4-week period November 10-December 8, 1953 1/

| Category | Items for which unit sales were: | | | | | | | | | | | |
|---------------------------|----------------------------------|--------------------|-----------------------------|---------------|-----------------------------------|--------------------------|--------------------------|-----|-----|-----|-----|-----|
| | Items displayed: | Rows displayed: | Units in full display | Units sold | Average: weekly: units sold | Annual: turn- over | rate of turn- over | 1 | 6 | 11 | 21 | 31 |
| | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. |
| Canned vegetables | 152 | 466 | 10,348 | 18,249 | 4,562 | 23 | 0 | 0 | 2 | 2 | 7 | 141 |
| Canned fruits | 129 | 394 | 8,092 | 7,657 | 1,914 | 12 | 0 | 4 | 6 | 15 | 19 | 85 |
| Total or average . . | 281 | 860 | 18,440 | 25,906 | 6,477 | 18 | 0 | 4 | 8 | 17 | 26 | 226 |

1/ For definition of terms see text.

Note: Of the 281 items studied, 12 items or 4.3 percent had sales of 10 units or less per item.

Table 12.--Annual turnover rate and number of brands stocked for categories studied in 9 stores, 4-week period, 1953

| Item | Store A | | | Store B | | | Store C | | | Store D | | | Store E | | | Store F | | | Store G | | | Store H | | | Store I | | |
|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|--|--|
| | :Annual: | | | :Annual: | | | :Annual: | | | :Annual: | | | :Annual: | | | :Annual: | | | :Annual: | | | :Annual: | | | :Annual: | | |
| | :Brands: | turn-: | Brands: | :Brands: | turn-: | Brands: | :Brands: | turn-: | Brands: | :Brands: | turn-: | Brands: | :Brands: | turn-: | Brands: | :Brands: | turn-: | Brands: | :Brands: | turn-: | Brands: | :Brands: | turn-: | Brands: | | | |
| | : over : | : over : | : over : | : over : | : over : | : over : | : over : | : over : | : over : | : over : | : over : | : over : | : over : | : over : | : over : | : over : | : over : | : over : | : over : | : over : | : over : | : over : | : over : | : over : | | | |
| | : No. : | : No. : | : No. : | : No. : | : No. : | : No. : | : No. : | : No. : | : No. : | : No. : | : No. : | : No. : | : No. : | : No. : | : No. : | : No. : | : No. : | : No. : | : No. : | : No. : | : No. : | : No. : | : No. : | : No. : | | | |
| | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | | | |
| | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | | | |
| | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | | | |
| | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | | | |
| | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | | | |
| | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | | | |
| | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | : Annual: | | | |
| | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | : turn-: | | | |
| | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | : Brands: | | | |
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1/ Category not included in study.

2/ Weighted average: Units in full display divided by units sold per year.

Table 13.--Relation of number of units sold (4-week period) to number of items and brands stocked, turnover and units sold per brand for 15 comparable categories in 9 stores, 1953 1/

| Store group by number of units sold | Items | Brands | Units | Units | Average | Average |
|---|---------------|---------------|---------------|---------------|---------------|---------------|
| | stocked | stocked | in full | sold | units sold | annual |
| | <u>Number</u> | <u>Number</u> | <u>Number</u> | <u>Number</u> | <u>Number</u> | <u>Number</u> |
| 3 small | 2,016 | 740 | 46,124 | 33,764 | 45.6 | 9.5 |
| 3 medium. | 2,114 | 802 | 60,325 | 65,149 | 81.2 | 14.0 |
| 3 large | 2,394 | 816 | 105,978 | 110,855 | 135.8 | 13.6 |

1/ Even though items were duplicated among stores they were counted individually for each store.

Table 14.--Number of items, rows and units on display during the study and after adjustments in store B

| Category | During the study | | | After the adjustments 1/ | | |
|-----------------------------------|------------------|-----------|-----------------|--------------------------|-----------|-----------------|
| | Items | Rows | Units | Items | Rows | Units |
| | displayed | displayed | in full display | displayed | displayed | in full display |
| | Number | Number | Number | Number | Number | Number |
| Pickles, olives, relish | 82 | 155 | 1,997 | 61 | 83 | 864 |
| Baking supplies | 93 | 127 | 1,760 | 77 | 100 | 1,167 |
| Oils and salad dressing | 49 | 81 | 618 | 40 | 53 | 413 |
| Beverages | 82 | 117 | 1,469 | 70 | 89 | 1,099 |
| Cereals | 63 | 117 | 922 | 57 | 85 | 984 |
| Soups | 28 | 64 | 1,125 | 26 | 53 | 946 |
| Condiments | 41 | 75 | 617 | 32 | 44 | 372 |
| Canned juices | 41 | 67 | 828 | 33 | 37 | 532 |
| Canned vegetables | 117 | 229 | 3,696 | 92 | 122 | 1,895 |
| Canned fruits | 77 | 163 | 2,160 | 66 | 83 | 1,091 |
| Canned meat and chicken | 57 | 84 | 1,347 | 49 | 53 | 890 |
| Canned fish | 38 | 54 | 1,429 | 31 | 35 | 910 |
| Canned milk | 8 | 17 | 356 | 8 | 17 | 376 |
| Sugar | 10 | 15 | 201 | 10 | 13 | 199 |
| Pet foods | 37 | 74 | 816 | 35 | 57 | 590 |
| Spreads | 61 | 90 | 1,024 | 46 | 54 | 565 |
| Total | 884 | 1,529 | 20,365 | 733 | 978 | 12,893 |
| Percent reduction | | | | Percent | Percent | Percent |
| | | | | 17 | 36 | 37 |

1/ Number of items, rows and units remaining on display of those that were displayed during the study. Space made available by the reduction in numbers was filled with new items in these and other categories.

Table 15.--Number of items, rows and units on display during the study and after adjustments in store C

| Category | During the study | | | After the adjustments 1/ | | |
|-----------------------------------|------------------|-----------|-----------------|--------------------------|-----------|-----------------|
| | Items | Rows | Units | Items | Rows | Units |
| | displayed | displayed | in full display | displayed | displayed | in full display |
| | Number | Number | Number | Number | Number | Number |
| Pickles, olives, relish | 38 | 86 | 587 | 33 | 66 | 552 |
| Baking supplies | 76 | 99 | 902 | 74 | 90 | 879 |
| Oils and salad dressing | 32 | 68 | 480 | 30 | 58 | 449 |
| Beverages | 48 | 64 | 574 | 42 | 49 | 500 |
| Cereals | 49 | 50 | 722 | 46 | 47 | 660 |
| Baby foods. | 77 | 79 | 1,404 | 77 | 77 | 1,417 |
| Soups | 36 | 68 | 1,082 | 34 | 52 | 657 |
| Condiments. | 29 | 65 | 457 | 28 | 49 | 365 |
| Canned juices | 32 | 44 | 404 | 28 | 41 | 403 |
| Canned vegetables | 85 | 170 | 1,917 | 76 | 133 | 1,427 |
| Canned fruits | 71 | 146 | 1,401 | 68 | 113 | 1,049 |
| Canned meat and chicken | 37 | 62 | 768 | 32 | 48 | 672 |
| Canned fish | 19 | 34 | 596 | 18 | 32 | 548 |
| Canned milk | 6 | 15 | 414 | 6 | 14 | 354 |
| Sugar | 7 | 16 | 125 | 7 | 14 | 117 |
| Pet foods | 20 | 30 | 267 | 20 | 28 | 286 |
| Spreads | 50 | 100 | 767 | 48 | 80 | 809 |
| Total. | 712 | 1,196 | 12,867 | 667 | 991 | 11,144 |
| Percent reduction | | | | Percent | Percent | Percent |
| | | | | 6 | 17 | 13 |

1/ Number of items, rows and units remaining on display of those that were displayed during the study. Space made available by the reduction in numbers was filled with new items in these and other categories.

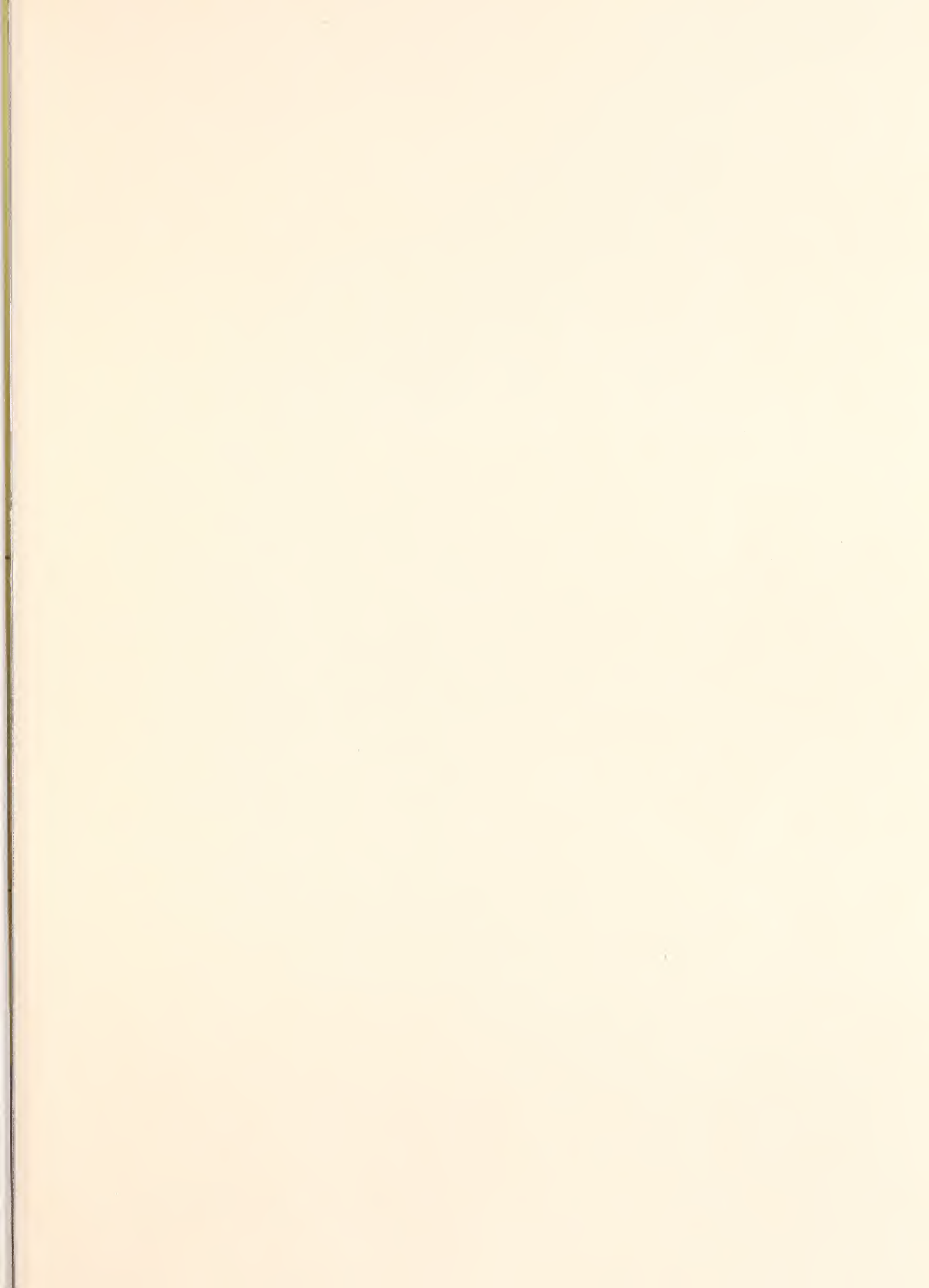
Table 16.--Number of items, rows and units on display during the study and after adjustments in store H

| Category | During the study | | | After the adjustments 1/ | | |
|-----------------------------------|------------------|-----------|-----------------|--------------------------|-----------|-----------------|
| | Items | Rows | Units | Items | Rows | Units |
| | displayed | displayed | in full display | displayed | displayed | in full display |
| | Number | Number | Number | Number | Number | Number |
| Pickles, olives, relish | 70 | 200 | 1,782 | 58 | 101 | 1,076 |
| Baking supplies | 78 | 110 | 3,016 | 72 | 89 | 2,109 |
| Oils and salad dressing | 45 | 122 | 853 | 43 | 84 | 654 |
| Beverages | 52 | 91 | 2,058 | 49 | 68 | 1,308 |
| Cereals | 67 | 82 | 2,786 | 63 | 82 | 1,992 |
| Baby foods. | 96 | 216 | 4,811 | 94 | 215 | 3,712 |
| Soups | 26 | 82 | 2,982 | 25 | 63 | 2,258 |
| Condiments. | 42 | 114 | 1,277 | 39 | 68 | 600 |
| Canned juices | 35 | 105 | 1,633 | 34 | 88 | 954 |
| Canned vegetables | 124 | 362 | 10,471 | 113 | 289 | 6,433 |
| Canned fruits | 78 | 231 | 4,921 | 76 | 211 | 3,060 |
| Canned meat and chicken | 53 | 118 | 2,087 | 44 | 81 | 1,324 |
| Canned fish | 27 | 62 | 1,387 | 25 | 47 | 1,020 |
| Canned milk | 5 | 16 | 956 | 5 | 15 | 594 |
| Sugar | 6 | 21 | 586 | 5 | 18 | 556 |
| Pet foods | 30 | 101 | 1,371 | 30 | 94 | 921 |
| Spreads | 64 | 138 | 1,788 | 62 | 99 | 1,195 |
| Dietetics | 23 | 58 | 633 | 23 | 42 | 430 |
| Total | 921 | 2,229 | 45,398 | 860 | 1,754 | 30,196 |
| Percent reduction | | | | | | |
| | | | | Percent | Percent | Percent |
| | | | | 7 | 21 | 33 |

1/ Number of items, rows and units remaining on display of those that were displayed during the study. Space made available by the reduction in numbers was filled with new items in these and other categories.







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